



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,780	11/14/2003	Kevin Joseph Audibert	091395-9409	8784

23585 7590 03/25/2005

MICHAEL BEST & FRIEDRICH LLP  
3773 CORPORATE PARKWAY  
SUITE 360  
CENTER VALLEY, PA 18034-8217

EXAMINER

FERGUSON, MICHAEL P

ART UNIT	PAPER NUMBER
----------	--------------

3679

DATE MAILED: 03/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/713,780

Applicant(s)

AUDIBERT ET AL.

Examiner

Michael P. Ferguson

Art Unit

3679

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 15 February 2005.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Claim Objections***

1. Claims 2, 3, 8, 9 and 15 are objected to because of the following informalities:  
Claim 2 (line 2) recites "shaft receiving opening". It should recite --shaft receiving slot--.  
Claim 2 (line 3) recites "length S". It should recite --length (S)--.  
Claim 3 (line 2) recites "shaft receiving opening". It should recite --shaft receiving slot--.  
Claim 8 (line 2) recites "shaft receiving opening". It should recite --shaft receiving slot--.  
Claim 9 (line 2) recites "shaft receiving opening". It should recite --shaft receiving slot--.  
Claim 15 (line 2) recites "a distance of less than (B) from". It should recite --a distance (B) from--.

For the purpose of examining the application, it is assumed that appropriate correction has been made.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Art Unit: 3679

3. Claims 1-16 are rejected under 35 U.S.C. 102(a) as being anticipated by Applicants' admitted prior art (Figures 1 and 2).

As to claim 1, Applicants' admitted prior art discloses a shaft coupling element comprising:

a first portion configured for connection to a shaft **20** and a second portion configured for connection to a secondary component;

the first portion comprises first **10** and second **11** spaced apart side walls with a partial cylindrical portion extending therebetween to define a shaft receiving slot **12** having an axial opening into the shaft receiving slot;

a through bore **14** extending through the first and second walls; and

a safety notch **19** extending through the partial cylindrical portion adjacent the axial opening into the shaft receiving slot to define a radial opening from the shaft receiving slot (partially) through (part of) the cylindrical portion (Figures 1 and 2).

As to claim 2, Applicants' admitted prior art discloses a shaft coupling element wherein the through bore **14** is at an axial distance from the axial opening into the shaft receiving slot **12** and the safety notch **19** has an axial length that is larger than the distance (Figure 2).

As to claim 3, Applicants' admitted prior art discloses a shaft coupling element wherein the through bore **14** is at an axial distance from the axial opening into the shaft receiving slot **12**, the safety notch **19** has an axial length, and the shaft **20** has a forward chamfer having an axial length, wherein the safety notch axial length in combination with the chamfer axial length is larger than the distance (Figure 2).

As to claim 4, Applicants' admitted prior art discloses a shaft coupling element wherein the shaft receiving slot **12** has a circular configuration (Figure 1).

As to claim 5, Applicants' admitted prior art discloses a shaft coupling element wherein the shaft receiving slot **12** has a u-shaped configuration (Figure 1).

As to claim 6, Applicants' admitted prior art discloses a shaft coupling element wherein the second portion includes a yoke having spaced apart arms **13** with a securement bore **19** extending therethrough (Figure 1).

As to claim 7, Applicants' admitted prior art discloses a shaft coupling element comprising:

a first portion configured for connection to a shaft **20** and a second portion configured for connection to a secondary component;

the first portion comprises a body having a shaft receiving slot **12** therein;

an axial opening in to the shaft receiving slot; and

a safety notch **19** extending through the first portion body adjacent the axial opening into the shaft receiving slot to define a radial opening from the shaft receiving slot (partially) through (part of) the first portion body (Figures 1 and 2).

As to claim 8, Applicants' admitted prior art discloses a shaft coupling element wherein a through bore **14** extends through the first portion body, the through bore is at an axial distance from the axial opening into the shaft receiving slot **12** and the safety notch **19** has an axial length that is larger than the distance (Figure 2).

As to claim 9, Applicants' admitted prior art discloses a shaft coupling element wherein a through bore **14** extends through the first portion body, the through bore is at

an axial distance from the axial opening into the shaft receiving slot **12**, the safety notch **19** has an axial length, and the shaft **20** has a forward chamfer having an axial length, wherein the safety notch axial length in combination with the chamfer axial length is larger than the distance (Figure 2).

As to claim 10, Applicants' admitted prior art discloses a shaft coupling element wherein the shaft receiving slot **12** has a circular configuration (Figure 1).

As to claim 11, Applicants' admitted prior art discloses a shaft coupling element wherein the shaft receiving slot **12** has a u-shaped configuration (Figure 1).

As to claim 12, Applicants' admitted prior art discloses a shaft coupling element wherein the second portion includes a yoke having spaced apart arms **13** with a securement bore **19** extending therethrough (Figure 1).

As to claim 13, Applicants' admitted prior art discloses a method of forming a shaft coupling element, the method including the steps of:

- providing a blank having an axis extending along a first portion and a second portion with a rear edge extending along the first portion substantially perpendicular to the axis;

- providing a first through bore **14** through the first portion on a first side of the axis and spaced from the rear edge;

- providing a second through bore **14** through the first portion on a second, opposite side of the axis and spaced from the rear edge;

- providing a notch **19** through the first portion, the notch extending from the rear edge; and

wrapping the blank about the axis such that a shaft receiving slot **12** is defined by the first portion with the notch defining a radial opening from the shaft receiving slot (partially) through (part of) the first portion (Figures 1 and 2).

As to claim 14, Applicants' admitted prior art discloses a method wherein upon wrapping of the blank, the first and second through bores **14** align (Figure 1).

As to claim 15, Applicants' admitted prior art discloses a method wherein the first and second through bores **14** are each at a distance from the rear edge, and the notch **19** extends axially from the rear edge into the first portion a distance that is larger than the distance (Figure 2).

As to claim 16, Applicants' admitted prior art discloses a method comprising the step of defining a pair of yoke arms **13** in the second portion (Figure 1).

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 4-7, 10-14 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by McClanahan et al. (US 5,628,578).

As to claim 1, McClanahan et al. disclose a shaft coupling element comprising:  
a first portion configured for connection to a shaft **16** and a second portion configured for connection to a secondary component;

the first portion comprises first and second spaced apart side walls **56** with a partial cylindrical portion **60** extending therebetween to define a shaft receiving slot having an axial opening into the shaft receiving slot;

a through bore **66** extending through the first and second walls; and

a safety notch **70** extending through the partial cylindrical portion adjacent the axial opening into the shaft receiving slot to define a radial opening from the shaft receiving slot through (part of) the cylindrical portion (Figures 1, 3 and 4).

As to claim 4, McClanahan et al. disclose a shaft coupling element wherein the shaft receiving slot has a circular configuration (Figure 3).

As to claim 5, McClanahan et al. disclose a shaft coupling element wherein the shaft receiving slot has a u-shaped configuration (Figure 3).

As to claim 6, McClanahan et al. disclose a shaft coupling element wherein the second portion includes a yoke having spaced apart arms **54** with a securement bore **62** extending therethrough (Figure 3).

As to claim 7, McClanahan et al. disclose a shaft coupling element comprising:  
a first portion configured for connection to a shaft **14** and a second portion configured for connection to a secondary component;

the first portion comprises a body having a shaft receiving slot therein;

an axial opening in to the shaft receiving slot; and

a safety notch **70** extending through the first portion body adjacent the axial opening into the shaft receiving slot to define a radial opening from the shaft receiving slot through (part of) the first body portion (Figures 1, 3 and 4).



As to claim 10, McClanahan et al. disclose a shaft coupling element wherein the shaft receiving slot has a circular configuration (Figure 3).

As to claim 11, McClanahan et al. disclose a shaft coupling element wherein the shaft receiving slot has a u-shaped configuration (Figure 3).

As to claim 12, McClanahan et al. disclose a shaft coupling element wherein the second portion includes a yoke having spaced apart arms **54** with a securement bore **62** extending therethrough (Figure 3).

As to claim 13, McClanahan et al. disclose a method of forming a shaft coupling element, the method including the steps of:

providing a blank having an axis extending along a first portion and a second portion with a rear edge extending along the first portion substantially perpendicular to the axis;

providing a first through bore **66** through the first portion on a first side of the axis and spaced from the rear edge;

providing a second through bore **66** through the first portion on a second, opposite side of the axis and spaced from the rear edge;

providing a notch **70** through the first portion, the notch extending from the rear edge; and

wrapping the blank about the axis such that a shaft receiving slot is defined by the first portion with the notch defining a radial opening from the shaft receiving slot through (part of) the first portion (Figures 1, 3 and 4).

As to claim 14, McClanahan et al. disclose a method wherein upon wrapping of the blank, the first and second through bores **66** align (Figure 3).

As to claim 16, McClanahan et al. disclose a method comprising the step of defining a pair of yoke arms **54** in the second portion (Figure 3).

### ***Response to Arguments***

6. Applicant's arguments filed February 15, 2005 have been fully considered but they are not persuasive.

As to claims 1 and 7, Attorney argues that:

Applicants' admitted prior art does not disclose a shaft coupling element comprising a safety notch extending through the partial cylindrical portion adjacent the axial opening into the shaft receiving slot to define a radial opening from the shaft receiving slot *through the cylindrical portion*.

Examiner disagrees. As to claims 1 and 7, Applicants' admitted prior art discloses a shaft coupling element comprising a safety notch **19** extending through the partial cylindrical portion adjacent the axial opening into the shaft receiving slot **12** to define a radial opening from the shaft receiving slot (partially) through (part of) the cylindrical portion (Figures 1 and 2).

As to claims 1 and 7, Attorney argues that:

McClanahan et al. do not disclose a shaft coupling element comprising a safety notch extending through the partial cylindrical portion adjacent the axial opening into the shaft receiving slot to define a radial opening from the shaft receiving slot *through the cylindrical portion*.

Art Unit: 3679

Examiner disagrees. As to claims 1 and 7, McClanahan et al. disclose a shaft coupling element comprising a safety notch **70** extending through the partial cylindrical portion **60** adjacent the axial opening into the shaft receiving slot to define a radial opening from the shaft receiving slot through (part of) the cylindrical portion (Figures 1, 3 and 4).

As to claim 13, Attorney argues that:

Applicants' admitted prior art does not disclose a method including the step of wrapping the blank about the axis such that a shaft receiving slot is defined by the first portion with the notch defining a radial opening from the shaft receiving slot *through the first portion*.

Examiner disagrees. As to claim 13, Applicants' admitted prior art discloses a method including the step of wrapping the blank about the axis such that a shaft receiving slot **12** is defined by the first portion with the notch **19** defining a radial opening from the shaft receiving slot (partially) through (part of) the first portion (Figures 1 and 2).

As to claim 13, Attorney argues that:

McClanahan et al. do not disclose a method including the step of wrapping the blank about the axis such that a shaft receiving slot is defined by the first portion with the notch defining a radial opening from the shaft receiving slot *through the first portion*.

Examiner disagrees. As to claim 13, McClanahan et al. disclose a method including the step of wrapping the blank about the axis such that a shaft receiving slot is

Art Unit: 3679

defined by the first portion with the notch 70 defining a radial opening from the shaft receiving slot through (part of) the first portion (Figures 1, 3 and 4).

***Conclusion***

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Ferguson whose telephone number is (703)308-8591. The examiner can normally be reached on M-F (7:30-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (703)308-2686. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3679

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*MPA*  
MPF  
03/17/05

*Daniel P Stodola*

DANIEL P. STODOLA  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3600